



## Absolute Rated High Performance Pleated Polypropylene Filter Cartridge

*“LOFPLEAT-HP filters by Eaton are perfect for a wide range of process applications including food & beverage, aqueous solutions, chemicals, bottled water, pharmaceutical, cosmetics, process water, RO prefilters and ink.”*

This high efficiency, high performance filter is constructed with a large surface area, melt blown polypropylene media for high dirt holding capacity with low initial pressure drop.

### Features and Benefits

- Fits broad range of applications with 0.2 to 20 micron retention
- Acceptable for food and beverage applications
- Meets USP Class VI biological tests for plastics
- Beta rating of 5000, 99.98% efficiency
- High flow and long life for minimum maintenance
- Fixed pore structure prevents dirt unloading even at high differential pressure
- Heavy-duty molded cage for high structural strength

### Dimensions / Parameters

**Nominal lengths**  
5"; 9.75"; 10"; 20"; 30"; 40"  
(12.7; 24.7; 25.4; 50.8; 76.2;  
101.6 cm)

**Outside diameter**  
2.7" (6.9 cm)

**Inside diameter**  
1" (2.54 cm)

**Surface area**  
7 ft<sup>2</sup> (0.65 m<sup>2</sup>) per 10 inch element

**Max. operating temp.**  
176°F (80°C)

**Max. differential pressure**  
5.2 bar @ 21°C (75 psid @ 70°F)  
2.8 bar @ 80°C (40 psid @ 176°F)  
1.03 bar @ 88°C (15 psid @ 190°F)

### Filter Specifications

**Construction material**  
Polypropylene

**Gaskets / O-Rings**  
Buna-N, EPDM, Silicone, Viton®,  
FEP encapsulated Viton (O-Rings  
only)

**Micron ratings**  
0.2, 0.45, 1, 2.5, 5, 10, 20 μm

### Sanitization

Hot water at 80°C (176°F) at .35 bar (5 psid) for 30 min.

In-line steam at 125°C (257°F) at .07 bar (1 psid) for 30 min.

Autoclavable at 125°C (257°F) for 30 min.

### FDA & USP compliance

All polypropylene material used in manufacturing complies with the regulations of the Food and Drug Administration (FDA) title 21 of the Code of Federal Regulations Sections 174.5, 177.1520, and 177.1630, as applicable for food and beverage contact.

Filter Removal Efficiency			
Beta Ratio Efficiency	Beta 5000 99.98%	Beta 100 99%	Beta 50 98%
0.2 µm	0.2	0.1	0.05
0.45 µm	0.45	0.3	0.2
1 µm	1	0.6	0.3
2.5 µm	2.5	2	1.5
5 µm	5	4	3
10 µm	10	8	7
20 µm	20	17	15

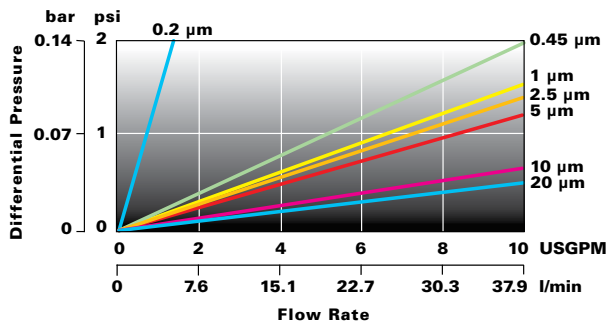
$$\text{Beta Ratio} = \frac{\text{Upstream particle counts}}{\text{Downstream particle counts}}$$

The micron ratings shown at various efficiency and beta ratio value levels were determined through laboratory testing, and can be used as a guide for selecting cartridges and estimating their performance. Under actual field conditions, results may vary somewhat from the values shown due to the variability of filtration parameters. Testing was conducted using the single-pass test method, water at 2.5 gpm/10" cartridge. Contaminants included latex beads, coarse and fine test dust. Removal efficiencies were determined using dual laser source particle counters.



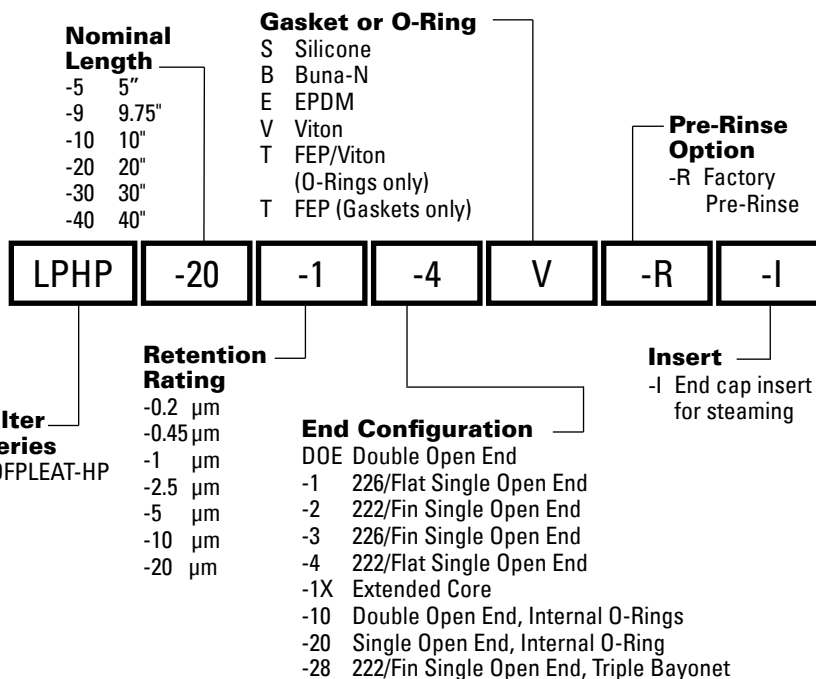
LOFPLEAT-HP is available with a variety of gasket, O-ring and end cap configurations.

### LOFPLEAT-HP Flow Rate (21°C/70°F per 10" cartridge)



\* For liquids other than water, multiply pressure drop by fluid viscosity in centipoise

### Filter Specification Code



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